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Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/CEMENT/2019-20 Date: 14.07.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of Work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	Cement
Sample Received on	:	12.07.2019
Period of Testing	:	12.07.2019 to 14.07.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/SAND-Gradation/2019-20 14.07.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of Work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2007)
Sample Received On	:	12.07.2019
Date of Testing	:	14.07.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.80	90-100	90-100	90-100	95-100
2.36	87.10	60-95	75-100	85-100	95-100
1.18	71.30	30-70	55-90	75-100	90-100
600 Micron	42.80	15-34	35-59	60-79	80-100
300 Micron	18.30	5-20	8-30	12-40	15-50
150 Micron	6.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/AGG/GR/2019-20 14.07.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of Work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	12.07.2019
Date of Testing	:	14.07.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.20	95-100	85-100
20	41.50	30-70	0-20
10	16.10	10-35	0-5
4.75	3.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
*** Name of Work**	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
*** Sample ID**	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	12.07.2019
Date of Testing	:	14.07.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.10	95-100	85-100
10	37.50	25-55	0-20
4.75	4.02	0-10	0-5

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Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/VSK/W.No.08/Steel/2019-20 14.07.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.07.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	554	13.25	O.K	O.K

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Job No.: CTCE/BBMP/VSK/W.No.08/Steel/2019-20 14.07.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.07.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	556	13.4	O.K	O.K

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* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	20.07.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	517	558	13.55	O.K	O.K

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Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/Cube/2019-20 17.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency		**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of the work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2019	17.08.2019	8.265	605.4	26.91
2	20.07.2019	17.08.2019	8.348	617.8	27.46
3	20.07.2019	17.08.2019	8.472	628.2	27.92

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Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/Cube/2019-20 17.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency		**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of the work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2019	17.08.2019	8.162	593.6	26.38
2	20.07.2019	17.08.2019	8.375	618.5	27.49
3	20.07.2019	17.08.2019	8.248	607.2	26.99

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
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* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.07.2019	17.08.2019	8.375	635.8	28.26
2	20.07.2019	17.08.2019	8.253	625.4	27.80
3	20.07.2019	17.08.2019	8.126	610.5	27.13

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency		**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
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* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2019	19.08.2019	8.249	589.3	26.19
2	22.07.2019	19.08.2019	8.362	596.7	26.52
3	22.07.2019	19.08.2019	8.417	612.5	27.22

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Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/Cube/2019-20 19.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency		**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of the work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2019	19.08.2019	8.326	622.3	27.66
2	22.07.2019	19.08.2019	8.174	598.6	26.60
3	22.07.2019	19.08.2019	8.259	612.7	27.23

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/Cube/2019-20 19.08.2019

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.07.2019	19.08.2019	8.349	617.2	27.43
2	22.07.2019	19.08.2019	8.478	626.5	27.84
3	22.07.2019	19.08.2019	8.213	604.8	26.88

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Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/Cube/2019-20 28.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency		**Mr. V. Sendhil Kumar** No.09, Jayalakshmi Nilaya, Kuppaswamy Layout, H.K.B.K College Road, Nagawara, Bangalore – 560 045.
* Name of the work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2019	28.08.2019	8.163	595.8	26.48
2	31.07.2019	28.08.2019	8.249	607.2	26.99
3	31.07.2019	28.08.2019	8.378	618.7	27.50

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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2019	28.08.2019	8.346	608.5	27.04
2	31.07.2019	28.08.2019	8.478	615.4	27.35
3	31.07.2019	28.08.2019	8.212	590.8	26.26

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.08.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.07.2019	28.08.2019	8.364	628.7	27.94
2	31.07.2019	28.08.2019	8.175	606.5	26.96
3	31.07.2019	28.08.2019	8.296	615.2	27.34

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Job No.: CTCE/BBMP/VSK/W.No.08/CSR-1009c/Cube/2019-20 05.09.2019

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* Name of the work	:	Improvements of roads and drains in Kodigehalli A.K. Colony and surrounding areas in Ward No. 08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/57/2019-20 Dated : 11.07.2019
* Sample ID	:	Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.08.2019	05.09.2019	8.174	597.4	26.55
2	08.08.2019	05.09.2019	8.296	614.5	27.31
3	08.08.2019	05.09.2019	8.354	621.8	27.64

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* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.08.2019	05.09.2019	8.294	601.8	26.75
2	08.08.2019	05.09.2019	8.346	614.7	27.32
3	08.08.2019	05.09.2019	8.412	625.8	27.81

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Sample Received on	:	05.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.08.2019	05.09.2019	8.253	605.3	26.90
2	08.08.2019	05.09.2019	8.374	610.7	27.14
3	08.08.2019	05.09.2019	8.142	594.5	26.42

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.08.2019	05.09.2019	8.253	616.9	27.42
2	08.08.2019	05.09.2019	8.367	629.8	27.99
3	08.08.2019	05.09.2019	8.182	603.6	26.83

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Sample Received on	:	05.09.2019

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1	08.08.2019	05.09.2019	8.159	599.8	26.66
2	08.08.2019	05.09.2019	8.274	617.5	27.44
3	08.08.2019	05.09.2019	8.369	623.4	27.71

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